

EIGHTEENTH ANNUAL MEETING OF THE CALIFORNIA AQUATIC BIOASSESSMENT WORKGROUP

DAVIS, CALIFORNIA
NOVEMBER 9 and 10, 2011

DRAFT MEETING AGENDA

WEDNESDAY NOVEMBER 9

ARC Ballroom, UC Davis Campus

8:00 – 8:30 **Registration**

8:30 - 8:45 Welcome and Objectives of the Meeting – *Jim Harrington, California Department of Fish and Game, Office of Spill Prevention and Response, Aquatic Bioassessment Laboratory (ABL), Rancho Cordova*

8:45 - 9:55 Updates on the SWAMP Statewide Bioassessment Monitoring

Status of the Surface Water Ambient Monitoring Program (SWAMP) and Recent Accomplishments. – *Shakoora Azimi-Gaylon, State Water Resources Control Board (SWRCB), Sacramento*

Extent of California's Perennial and Non-Perennial Streams – *Jennifer Salisbury, SWRCB*

The Value of a Probabilistic Monitoring Design in SWAMP's Statewide Bioassessment Program – *Dawit Tadesse, SWRCB*

The Condition of California's Wadeable Perennial Streams – *Toni Marshall, SWRCB*

Biology-based Stressor Thresholds - Letting the bugs tell us where enough is enough – *Susan Monheit, SWRCB*

9:55 - 10:15 Overview and Services Available for Entering SWAMP Bioassessment Data into CEDEN – *Steve Steinberg, SCCWRP) and Karl Jacobs, SWRCB*

10:15 – 10:45 **Break**

10:45 - 11:30 A Monitoring Network for Detecting the Hydrologic Effects of Climate Change on Sierra Nevada Streams and Biological Indicators - results from the first 2 years– *Dave Herbst, University of California, Sierra Nevada Aquatic Research Laboratory*

11:30 - 11:45 SWAMP/ABL Bioassessment Training Program – *Jim Harrington, ABL*

Session 1 – Aquatic Invertebrate and Benthic Algae Sampling and Physical Habitat Data Collection

11:45 - 12:15 Updating the SWAMP Bioassessment Protocol for Collecting Aquatic Invertebrates and Measuring Physical Habitat - Raphael Mazor, *Southern California Coastal Water Research Project (SCCWRP)*, Costa Mesa, Jim Harrington and Shawn McBride, *ABL*

12:15 - 12:45 Overview and Update on CRAM Procedures used in PSA and Development of CRAM for Various Habitats – *Chris Solek, SCCWRP*

12:45 – 2:00 **Lunch**

Session 1 – Continued

2:00 - 2:30 Importance of Decontamination in Controlling Aquatic Invasive Species (AIS) – *Martha Volkoff, DFG, Habitat Conservation Planning Branch, Invasive Species Program, Sacramento*

2:30 - 2:50 Spills, Fish Kills and How to Work with DFG for Water Quality Issues – *Janna Rinderneck and Angie Montalvo , DFG, Office of Spill Prevention and Response (OSPR), Sacramento*

Session 2 – Algae Bioassessment Tools and Implementation

2:50 – 3:35 SWAMP's Tools and Infrastructure for the State's Algae Program – *Lilian Busse San Diego Regional Water Quality Control Board and Matt Cover California State University Stanislaus (CSUS)*

3:35 – 3:45 **Break**

3:45 – 4:15 Update on the Benthic Algae IBI for Southern California – *Betty Fetscher, SCCWRP*

4:15 – 5:00 Implementation of Algae Monitoring in Current Bioassessment Programs (optional)

THURSDAY NOVEMBER 10

ARC Ballroom, UC Davis Campus

Session 3 – Aquatic Invertebrate Laboratory Procedures and Expectations

9:00 – 9:30 Overview of Freshwater Invertebrate Laboratory Practices and What to Expect from Your Bug Lab – *Dan Pickard and Joe Shusark, DFG/Chico State Foundation*

9:30 – 9:50 Processing Freshwater Invertebrates using DNA Barcoding Techniques – *Eric Stein SCCWRP*

Session 4 – Bioassessment Data Entry and Output

9:50 – 10:05 Use of the FlexiGrid System for Processing of Physical Habitat data Collected per Multiple Protocols, including SWAMP– *Revital Katznelson, UC Berkeley Extension*

10:05 – 10:25 Data In and Data Out: Status on the SWAMP Database and Tools for Biological Data – *Marco Sigala, Moss Landing Marine Laboratories*

Session 5 – Ambient and Point-Source Bioassessment Data Interpretation

10:25 – 11:10 Modeling to Improve Precision, Accuracy, and Sensitivity of Biological Indices - Nevada as a case study – *Charles Hawkins and Jake Vander Laan, Utah State University, Logan*

11:10 – 11:30 **Break**

11:30 – 11:50 Biological Effects of Hydromodification – *Eric Stein, SCCWRP and Matt Cover CSUS*

11:50 – 12:10 Central Coast Agricultural Waiver Bioassessment Results – *Sarah Greene Lopez Central Coast Water Quality Preservation, Inc*

12:10 – 12:30 Malibu Creek Watershed as an Outlier on Water Quality and IBI Scores – *Jan Dougall, Las Virgenes Municipal Water District, Calabasas*

12:30 – 1:30 **Lunch**

Session 5 Continued

1:30 – 1:50 Effects of Vineyard Coverage and Extent on Benthic Macroinvertebrates in Napa and Sonoma Counties – *Justin Lawrence, UC Berkeley*

- 1:50 – 2:10 Stressor Identification Process for Dry Creek - Findings and Challenges –
*Barbara Washburn, Office of Environmental Health Hazard Assessment
Ecotoxicology Program, Sacramento*
- 2:10 – 2:30 Linking Land Use, Instream Chemical Stressors, and Benthic Invertebrate
Assemblages in Nevada Streams – *Jake Vander Laan and Charles
Hawkins, Utah State University, Logan*
- 2:30 – 2:50 Freshwater Amphipods of California and Implications with Bioassessment
– *G. O. "Geo" Graening California State University Sacramento*
- 2:50 – 3:10 **Break**
- 3:10 – 3:30 Bioassessment of San Gabriel River watershed – *Scott Johnson, Aquatic
Bioassay & Consulting Laboratories and Kristy Morris, Council for
Watershed Health*
- 3:30 – 3: 50 Citizen-based Monitoring Characterizes Water Quality and BMI
throughout a Western Sierra Stream – *Joanne Hild and Rachel Durben,
Sierra Streams Institute, Nevada City*
- 3:50 – 4: 30 Wrap-up of Meeting and Discussion on Forming Workgroups